

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (currently amended) A compressor comprising:

5 a compressor wheel having a hub, compressor blades and being mounted for rotation on a shaft, each blade being characterized by an outer edge, an upstream leading edge and a downstream trailing edge; and
a shroud mounted adjacent and around the outer edges of the wheel compressor blades and defining a gas flow path between the shroud and
10 the ~~blades~~ hub from a compressor inlet to a diffuser outlet, through which the blades rotate with respect to the shroud;

wherein in cross-section the shroud forms a surface along the flow path, the surface being characterized by a profile that includes a relative discontinuity in the region of the trailing edge; and

15 wherein the discontinuity forms a downstream-facing blocking face adapted to impede an upstream flow of gas between the shroud and the wheel, the blocking face extending across the flow path to form a sharp edge connecting the blocking face to a smoothly curving surface along the gas flow path upstream of the discontinuity.

20 2. (canceled)

3. (canceled)

4. (previously presented) A compressor according to claim 1, wherein the cross-section profile of the shroud surface along the flow path is further characterized by a second relative discontinuity that is in the region of the leading edge, and wherein the second relative discontinuity forms a second downstream-facing blocking face adapted to impede an upstream flow of gas between the shroud and the wheel, the second blocking face extending across the flow path to form a sharp edge connecting the second blocking face to a second smooth surface upstream of the second discontinuity.
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- 10 5. (original) A compressor according to claim 4 wherein the second discontinuity is located upstream of the leading edge of the wheel blades.
6. (previously presented) A compressor according to claim 5 wherein the second discontinuity is spaced from the leading edge of the wheel blades by a distance of the same order as the axial clearance of the trailing edge from the compressor housing.
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7. (canceled)
- 20 8. (canceled)
9. (previously presented) A compressor according to claim 4, wherein the or each downstream-facing blocking face comprises a planar surface cut into the curving surface.
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10. (canceled)

11. (previously presented) A compressor according to claim 4, wherein the second downstream-facing blocking face comprises a planar surface cut into the curving surface, and wherein the planar surface is perpendicular to the axis of the shaft.

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12. (previously presented) A compressor according to any one of claims 4, 6, or 9, wherein the radial extent of the second discontinuity is of the same order as the radial clearance between the trailing edge and the housing.

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13. (previously presented) A compressor according to any one of claims 4, 6, or 9, wherein the sizes of the first and second discontinuities are closely similar.

15 14. (previously presented) A compressor according to any one of claims 4, 6 or 9, wherein the shapes of the first and second discontinuities are closely similar.

20 15. (previously presented) A turbocharger comprising a compressor according to any one of claims 1, 4, 6 or 11.

25 16. (currently amended) A compressor according to any one of claims 1 or 4, wherein the or each blocking face forms a second sharp edge on an opposite side of the blocking face from the its respective first sharp edge, the second sharp edge connecting the blocking face to a smoothly curving surface downstream of its respective discontinuity.